



Experimental Lake Erie Harmful Algal Bloom Bulletin

2010-003

25 June 2010

National Ocean Service

Great Lakes Environmental Research Laboratory

Last bulletin: 03 June 2010

Conditions: There are no confirmed reports of *Microcystis* at this time.

Analysis: Imagery shows an anomaly northeast of Maumee Bay and another east of Sandusky Bay. Sampling is recommended. Note, due to software problems imagery has 1km resolution. -Neff

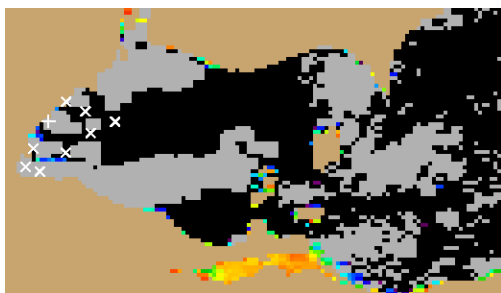


Figure 1. MERIS image from the European Space Agency. Imagery shows the spectral shape at 681 nm from June 22, where colored pixels indicate the likelihood of the last known position of the *Microcystis* spp. bloom (with red being the highest concentration). *Microcystis* spp. abundance data from June 21 shown as white squares (very high), circles (high), diamonds (medium), triangles (low) , + (very low) and X (not present). Please note: Colored pixels in Sandusky Bay are due to a mixed bloom dominated by *Planktothrix* spp.

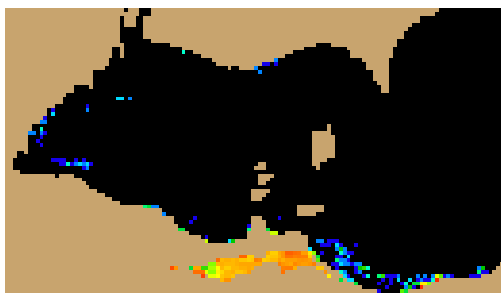


Figure 2. Nowcast position of *Microcystis* spp. bloom for June 25 using GLCFS modeled currents to move the bloom from the June 22 image. Please note: Colored pixels in Sandusky Bay are due to a mixed bloom dominated by *Planktothrix* spp.

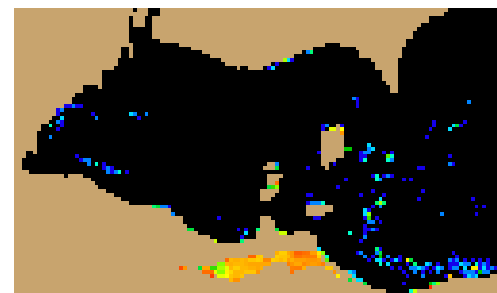


Figure 3. Forecast position of *Microcystis* spp. for June 28 using GLCFS modeled currents to move the bloom from June 22 image. Please note: Colored pixels in Sandusky Bay are due to a mixed bloom dominated by *Planktothrix* spp.

Please note:

- MERIS imagery was distributed by the NOAA CoastWatch Program and provided by the European Space Agency
- Cell counts were collected by the Great Lakes Environmental Research Laboratory
- The wind data is available through the National Data Buoy Center and the National Weather Service
- Modeled currents were provided through the Great Lakes Coastal Forecasting System

